INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/16746

A. CLASS Int.	SIFICATION OF SUBJECT MATTER C1 C01B13/14, C01B33/159, C01	F7/02, C01G23/047, B013	J27/19	
According to	o International Patent Classification (IPC) or to both na	ntional classification and IPC		
B. FIELDS	SSEARCHED			
Minimum de	ocumentation searched (classification system followed local CO1B13/14, CO1B33/159, CO1	by classification symbols) F7/02, C01G23/047, B01	J27/19.	
Documentat Jitsu Kokai	ion searched other than minimum documentation to the layo Shinan Koho 1922-1996 i Jitsuyo Shinan Koho 1971-2004	extent that such documents are included Toroku Jitsuyo Shinan Koh Jitsuyo Shinan Toroku Koh	0 1994-2004	
	ata base consulted during the international search (nam	e of data base and, where practicable, sea	rch terms used)	
C. DOCU	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
A	JP 2003-286011 A (Chiyoda Co 07 October, 2003 (07.10.03), Abstract; Claims (Family: none)	orp.),	1-19	
A	JP 2002-28485 A (Chiyoda Cor 29 January, 2002 (29.01.02), Abstract; Claims (Family: none)	rp.),	1-19	
A	JP 2001-170500 A (Toyota Cen Development Laboratories, Inc 26 June, 2001 (26.06.01), Claims 25, 27, 28; examples 2 & EP 1020223 A2 & US	2 to 13	1-19	
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 19 March, 2004 (19.03.04) "T" later document published after the international filing date or priority date and not in conflict with the application but cited understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; the claimed invention cannows the document of particular relevance; t			he application but cited to lerlying the invention claimed invention cannot be red to involve an inventive esclaimed invention cannot be p when the document is a documents, such a skilled in the art family	
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International application No.
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	JP 11-290692 A (Director General, Agency of Industrial Science and Technology), 26 October, 1999 (26.10.99), Abstract; Claims (Family: none)	1-19
A	JP 5-246717 A (Tioxide Group Services Ltd.), 24 September, 1993 (24.09.93), Abstract; Claim 20; examples & EP 474357 A1 & US 5147629 A	. 1-19
A	JP 63-274663 A (Tioxide Group PLC.), 11 November, 1988 (11.11.88), Claims; examples 1, 5 & US 4851293 A	1-19
A	<pre>JP 56-120508 A (Chiyoda Corp.), 21 September, 1981 (21.09.81), Claims; example 6</pre>	1–19